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**TRANSMITTAL
FORM***(to be used for all correspondence after initial filing)*

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/772,765	
	Filing Date	Feb 4, 2004	
	First Named Inventor	Bujas, Roko S.	
	Art Unit	2856	
	Examiner Name	Christensen, Ryan S.	
Total Number of Pages in This Submission	8	Attorney Docket Number	81676 0703

ENCLOSURES (Check all that apply)

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Remarks
Request for Certificate of Correction (6 pages)
Certificate of Correction PTO/SB/44 (1 page)
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Certificate

MAY 31 2007

of Correction

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	FITCH, EVEN, TABIN & FLANNERY		
Signature			
Printed name	Thomas F. Lebens		
Date	May 24, 2007	Reg. No.	38221

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature			
Typed or printed name	Thomas F. Lebens	Date	May 24, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/772,765
 Applicant(s) : Bujas, et al.
 Filed : 2/4/2004
 TC/A.U. : 2856
 Examiner : Christensen, Ryan S.
 Docket No. : 81676
 Customer No. : 22242
 Confirmation No. : 5701

I hereby certify that this paper is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this date May 29, 2007.

Thomas F. Lebens
 Registration No. 38,221
 Attorney for Applicant(s)

**REQUEST FOR CERTIFICATE OF CORRECTION
 PURSUANT TO 37 C.F.R. § 1.322**

Certificate of Correction Branch
 Commissioner for Patents
 Post Office Box 1450
 Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith is a Certificate of Correction for United States Patent 7,178,384 B2 issued February 20, 2007. Upon reviewing the patent, the following errors were noted and should be corrected as follows:

In the CLAIMS:

Claim 5, column 12, line 21, change "(14CO)" to --(14CO)--.

Claim 11, column 13, line 35, delete "baffler" and insert --barrier--.

Claim 12, column 14, line 22, delete "baffler" and insert --barrier--.

Claim 15, column 14, line 33, change "(14CO)" to --14CO--.

The Certificate of Correction sets forth these corrections.

May 31 2007

Remarks

A review of these documents confirms that the errors were made in the printing of the patent. Please see Exhibit "A", pages 3, 5, and 6 from the Amendment and Response filed with the USPTO on September 8, 2006, for the following corrections:

Correction to Claim 5, please see page 3, claim 5, line 2;

Correction to Claim 11, please see page 5, claim 21, line 13;

Correction to Claim 12, please see page 6, claim 22, line 4; and

Correction to Claim 15, please see page 6, claim 25, line 4.

Since these errors for which a Certificate of Correction is requested are a result of the United States Patent and Trademark Office mistake, no fee is due (35 U.S.C. § 254). Please charge any deficiency or overpayment in fees to Deposit Account 06-1135.

Respectfully submitted,

FITCH, EVEN, TABIN & FLANNERY

Thomas F. Lebans

Reg. No. 38,221

MAY 31 2007

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MAY 31 2007

3. (original) The method for measuring permeation according to claim 2 wherein a relative humidity of HTO between about 85% and 100% is supplied to the first chamber throughout the entire test period for the sample.

4. (original) The method for measuring permeation according to claim 1 wherein said radioactive gas is HTO and said carrier gas is dry methane.

5. (original) The method for measuring permeation according to claim 1 wherein said radioactive gas is carbon¹⁴ monoxide (¹⁴CO).

6. (original) The method for measuring permeation according to claim 5 wherein said carrier gas is dry argon.

7. (original) The method for measuring permeation according to claim 1 wherein said carrier gas enters said second chamber at a pressure just sufficient to maintain the desired very slow flow and is vented to the atmosphere through an absorption device which removes all of said radioactive compound from said carrier gas stream.

8. (original) The method for measuring permeation according to claim 7 wherein said carrier gas enters at a pressure of not greater than about 1.1 atm.

9-18 (cancelled)

19. (original) A method for testing a perimeter seal including adhesive material for ultralow permeation therethrough using a radioactive compound, which method comprises the steps of:

providing two plates, one of which has an opening therethrough which is spaced from the edges thereof, and assembling said plates so their facing surfaces are spaced substantially equidistant to each other by a continuous seal that includes adhesive material and encircles said opening,

means for supplying a radioactive gas to the first chamber where it will be in contact with the line of adhesive between said plates,

means for circulating a slow flow of carrier gas through the second chamber to provide a stream containing the radioactive gas permeating through the line of adhesive,

conduit means for flowing said stream from said second chamber to an ionic chamber that contains a radiation monitor for continuously monitoring said stream for beta particle radioactivity and for creating signals indicative of radioactivity, said ionic chamber having a volume not greater than about 2 liters, and

conversion means for receiving signals from said radiation monitor and converting the signals to calculate the permeation rate through the sample at that moment, whereby the sensitivity is such as to detect permeation of radioactive gaseous compounds through a sample line of adhesive that has barrier properties which permit permeation at a rate of less than 0.0001 gm/m²/day.

22. (new) A method for measuring ultralow permeation through a sample using a radioactive compound, which method comprises the steps of:

mounting a sample through which permeation is to be measured so as to provide controlled access to an upstream surface of the sample in a first chamber and to a downstream surface thereof in a second chamber, wherein said second downstream chamber has a volume of not greater than about 10 cm³,

supplying carbon¹⁴ monoxide (¹⁴CO) from a source so as to be in contact with the upstream surface of the sample in the first chamber,

collecting ¹⁴CO permeating from the downstream surface of the sample by circulating a very slow flow of dry carrier gas at a rate of not greater than about 1.5 liter per hour through the second chamber to provide a radioactive stream,

flowing said radioactive stream from said second chamber to an entrance to an ionic chamber not greater than about 2 liters in volume containing a beta-particle radiation monitor,

continuously monitoring said stream for beta particle radioactivity and generating signals, and

receiving signals from said radiation monitor in conversion means and converting the signals to calculate the permeation rate through the sample at that moment, whereby the sensitivity of the method allows measurement of permeation of ^{14}CO through samples that have barrier properties which permit permeation at rates of less than 0.0001 gm/sq.m/day.

23. (new) The method for measuring permeation according to claim 22 wherein ^{14}CO is supplied to the first chamber at a pressure slightly above ambient.

24. (new) The method for measuring permeation according to claim 22 wherein said carrier gas is dry argon.

25. (new) The method for measuring permeation according to claim 22 wherein said carrier gas enters said second chamber at a pressure just sufficient to maintain the desired very slow flow and is vented to the atmosphere through an absorption device which removes all of said ^{14}CO from said carrier gas stream.

26. (new) The method for measuring permeation according to claim 25 wherein said carrier gas enters at a pressure of not greater than about 1.1 atm.

27. (original) The method for measuring permeation according to claim 22 wherein said sample is a polymeric film.

28. (original) The method for measuring permeation according to claim 22 wherein said sample is line of adhesive of uniform width disposed between two flat plates.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,178,384

APPLICATION NO.: 10/772,765

DATED : February 20, 2007

INVENTOR(S) : Bujas, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the CLAIMS:

Claim 5, column 12, line 21, change "(14CO)" to --(14CO)--.

Claim 11, column 13, line 35, delete "baffler" and insert —barrier--.

Claim 12, column 14, line 22, delete "baffler" and insert —barrier--.

Claim 15, column 14, line 33, change "(14CO)" to —14CO--.

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PATENT NO: 7,178,384

MAY 31 2007



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application for to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.